

RT 305.06

Control valve, electric



The illustration shows a similar unit

Description

- electric motor-driven control valve with remote transmitter
- three-point control and control unit
- accessory for calibration trainer RT 304

Electric motor-driven control valves are exposed to natural ageing, contamination and mechanical stress during operation. Regular verification is required to ensure the precise control of the control valve's position in the long term.

The control valve consists of a straight-way valve, a force-fit electric motor-driven actuator and a control unit.

The RT 305.06 electric control valve is mounted on the bracket of the RT 304 calibration stand and connected to the power supply via the control unit. It is controlled via the control unit. The actuator is equipped with a resistance transmitter.

The position of the control valve is detected via the electric resistance of the actuator's transmitter.

For verification, the end positions and various positions of the control valve are approached. The electric resistance of the remote sensor is measured and compared with the stroke displayed on the actuator's scale.

Learning objectives/experiments

- verification of electric motor-driven control valves
- familiarisation with the operation and function of an electric motor-driven actuator

Specification

- [1] industrial control valve
- [2] electric motor drive
- [3] remote transmitter
- [4] three-point control
- [5] control unit
- [6] accessory for calibration trainer RT 304

Technical data

Control valve

- material: gun metal
- DN G 3/4", internal thread
- PN 25
- K_{VS} value: 2,5
- stroke: 6mm
- characteristic: equal percentage

Actuator

- electric motor-driven
- three-point control
- force-fit
- resistance remote transmitter: 1000Ω

230V, 50Hz, 1 phase
 230V, 60Hz, 3 phases
 120V, 60Hz, 1 phase
 UL/CSA optional
 LxWxH: 315x120x192mm
 Weight: approx. 5kg

Required for operation

multimeter

Scope of delivery

- 1 electric control valve
- 1 control unit
- 1 set of cables

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Required accessories

RT 304 Calibration trainer

Optional accessories

RT 305.10 Tool set